

ton, 10.5; Cornwall and Hartland, 10. *Virginia*.—Marion, 12; Abingdon, 9; Big Stone Gap, 5. *West Virginia*.—Tyler Creek, 3. *Wisconsin*.—Butternut, 8; Bayfield, 6.5; Medford (1), 6; Hayward, 5.5; Ithaca and Phillips, 5. *Wyoming*.—Fort Washakie, 24.1; Fort McKinney, 12; Cheyenne, 6.8.

The following is the heaviest snowfall reported for April in the several states and territories from 1882 to 1890, inclusive: Ariz., 14.0, at Cooley's Springs, in 1890; Cal., 126, at Summit, in 1884; Colo., 61.2, at Pike's Peak, in 1886; Conn., 14.0, at North Colebrook, in 1887; Ill., 10.5, at Riley, in 1884; Ind., 17.5, at Farmland, in 1886; Iowa, 5.5, at Manchester, in 1884; Kans., 18.0, at Fort Scott, in 1884; Ky., 5.8, at Frankfort, in 1886; Me., 21.0, at Cornish, in 1888; Md., 10.0, at Cumberland, in 1889; Mass., 26.0, at Princeton, in 1884; Mich., 39.3, at Hudson, in 1885; Minn., 18.2, at Saint Vincent, in 1885; Mo., 6.5, at Saint Louis, in 1886; Mont., 18.4, at Fort Maginnis, in 1887; Nebr., 14.8, at North Platte, in 1886; Nev., 26.0, at Ruby Hill, in 1890; N. H., 66.0, at Mount Washington, in 1882; N. J., 7.0, at Vineland, in 1887; N. Mex., 5.8, at Santa Fe, in 1885; N. Y., 19.5, at Rochester, in 1885; N. C., 17.0, at Raleigh, in 1887; Ohio, 22.0, at Jacksonborough, in 1886; Oregon, 7.5, at Vernonia, in 1890; Pa., 23.9, at Drifton, in 1884; R. I., 13.2, at Block Island, in 1887; Dakota, 45.1, at Deadwood, in 1887; Tex., 3.0, at Ochiltree, in 1890; Utah, 13.6, at Nephi, in 1883; Vt., 29.0, at Strafford, in 1887; Va., 11.5, at Alum Springs, in 1889; W. Va., 10.5, at Helvetia, in 1885; Wis., 18.5, at Wausan, in 1885; and Wyo., 22.0, at Cheyenne, in 1890.

#### HAIL.

Description of the more severe hail storms of the month is

#### WINDS.

The prevailing winds during April, 1891, are shown on Chart II by arrows flying with the wind. In New England, the middle Atlantic states, the lower lake region, the upper Mississippi valley, on the middle-eastern slope of the Rocky Mountains, over the southern and northern plateau regions, and on the middle Pacific coast the winds were mostly from southwest to northwest; in the south Atlantic states, on the northeast slope of the Rocky Mountains, over the middle plateau region, and on the north Pacific coast from southeast to southwest; over the Florida Peninsula, from northeast to southeast; in the west Gulf states and the Rio Grande Valley, from east to southeast; in the Ohio Valley and Tennessee, from west to north; in the upper lake region, from northwest to northeast; in the extreme northwest, from northwest to north; in the Missouri Valley, from the northwest; on the southeast slope of the Rocky Mountains, from the south; on the south Pacific coast, from the west; and in the east Gulf states, variable.

#### HIGH WINDS.

[In miles per hour.]

Wind velocities of 50 miles, or more, per hour were reported at regular stations of the Signal Service, as follows: 1st, 50, n., at Oklahoma City, Okla. T.; 60, w., at Fort Sill., Okla. T. 2d, 54, se., at Wood's Holl, Mass. 3d, 60, e., at Eastport, Me.; 60, ne., at Boston, Mass.; 52, se., at Nantucket, Mass.; 54, w., at Wood's Holl, Mass.; 70, se., at Block Island, R. I. 5th, 68, se., at Fort Canby, Wash. 8th, 54, nw., at Cheyenne, Wyo. 12th, 52, s., at Sioux City, Iowa. 16th, 53, s., at Sioux City, Iowa; 58, sw., at Dodge City, Kans. 20th, 63, nw., at Corpus Christi, Tex.; 50, se., at Chicago, Ill. 21st, 59, se., at Fort Canby, Wash. 22d, 40, sw., at Block Island, R. I.; 68, se., at Fort Canby, Wash. 25th, 50, sw., at Fort Du Chesne, Utah. 26th, 67, se., at Fort Canby, Wash.; 50, ne., at Kitty Hawk, N. C. 27th, 51, sw., at Port Huron, Mich. 29th, 54, n., at Fort Custer, Mont.

#### LOCAL STORMS.

1st.—At Oklahoma City, Okla. T., a severe gale began

given under "Local Storms." Hail was reported as follows: 1st, Ind., Ky., Minn., Miss., Mo. 2d, Ill., Minn., N. C., Wash. 3d, Ind., Mo., Ohio, Tenn. 4th, N. J., Va. 6th, Cal., Colo., Mo., Ohio. 7th, Cal., Nev., Oregon. 8th, Cal., Iowa, Kans., Minn., Mo., S. Dak., Tex., Wis. 9th, Ark., Ill., Ind., Iowa, Kans., Mich., Minn., Mo., Tenn., Tex. 10th, Ind., Ky., Mich., Miss., Ohio. 11th, Nev., N. C., Pa., Tenn., Tex. 12th, Iowa, Kans., Nebr., Okla. T., S. Dak., Tex. 13th, Iowa, Kans., Mo., Nebr., Nev. 14th, Mich., Ohio, Okla. T., Tex., Utah. 15th, Colo., Fla., Kans., Mo., Nebr., S. C., Tex., Utah, Wyo. 16th, Ariz., Ark., Colo., Ill., Iowa, Kans., Minn., Mo., Nebr., N. C., Pa., S. Dak., Tex., Utah, Wyo. 17th, Ill., Ind., Iowa, Kans., Mo., Nev., Ohio, Tenn., Tex., Va. 18th, Colo., Ind., Iowa, Nev., N. H., Pa., Tenn., Tex. 19th, Colo., Kans., Nev., S. Dak., Tenn., Tex. 20th, Colo., Iowa, Kans., Mont., Tenn., Tex., Wyo. 21st, Colo., Ill., Ind., Nebr., S. Dak., Tenn., Tex. 22d, Ark., Colo., Ill., Iowa, Ky., Mo., Ohio, Okla. T., Pa., Tenn., Tex., Wash. 23d, Cal., Miss., N. C., Oregon, Pa., Wash. 24th, Ga., Idaho, Oregon, S. C. 25th, Mass., N. J., Pa. 27th, N. Mex. 28th, Nebr., N. C., Wash. 29th, Idaho, Kans., Mont., Nebr., N. H., Wash. 30th, Ind., Ohio, Pa., S. Dak., Tex.

#### SLEET.

Sleet was reported as follows: 1st, Kans. 2d, Iowa, Wis. 3d, Ill., Me., Mass., Mo., Mont., N. Y., Pa., Tenn. 4th, Ind., Tenn. 5th, Tenn. 6th, Colo., Md. 7th, Cal., Nev., Utah. 8th, Iowa, Minn., Mo., Nebr., S. Dak., Wis. 9th, Mich., Minn. 10th, Minn. 12th, Pa. 14th, Mich. 16th, Utah. 18th, Ariz., Utah. 23d, Me. 24th, Cal. 25th, Cal., Me., Mass., Wyo.

about 5 p. m., causing damage to buildings, etc. At Guthrie, Okla. T., a heavy wind storm prevailed from 4 to 6 p. m., during which 1 building was blown down.

2-3d.—A severe gale prevailed along the New England and New Jersey coasts, causing damage to shipping and sea-side property. At Block Island, R. I., the wind attained a velocity of 70 miles per hour at 1.52 a. m., 3d; there was a heavy sea, and all vessels remained in port. At New Haven, Conn., snow began at 6.30 p. m., 2d, and ended at 10.45 a. m., 3d, with heavy wind shifting from ne. to nw. At New London, Conn., snow continued at intervals during the day and night of the 2d, with high ne. shifting to nw. winds. The wind on Long Island Sound was high, and the New York and Stonington boats were delayed several hours. At Boston, Mass., the wind blew with great force from 2 to 7 a. m., 3d, with a maximum of 60 miles per hour from the ne., and gusts of much greater force. From 8 p. m., 2d, to 8 a. m., 3d, the barometer fell 1.00 inch. Considerable damage was done in the city and vicinity. A report from Vineyard Haven, Mass., states that a schooner went ashore at West Chop; no lives lost. At Manchester, N. H., snow commenced the night of the 2d and continued throughout the 3d, with rain at intervals; total snowfall 6.5 inches. The storm was attended with high ne. winds and was the most severe in that section since March, 1888; fruit and shade trees were badly injured and telegraphic communication was cut off for the day. At Portland, Me., a violent ne. gale set in about 5 a. m., 3d, with heavy, moist snow at intervals until 1 p. m.; electric wires were prostrated, and at 4 p. m. the barometer was 29.01 (reduced). At Eastport, Me., a gale began at 4.35 a. m., 3d, and reached a maximum velocity of 60 miles per hour from the se. at 3.05 p. m., and ended at 5.55 p. m. On the 3d, during a heavy nw. sea and snow storm at Cleveland, Ohio, the tug "Tempest" was sunk inside the breakwater, and 3 men were drowned.

8th.—At 9.25 p. m., central time, a storm moved ne. over Garza, Tex., in a path about 50 yards in width. The storm was attended by heavy hail, continuous lightning, and very

heavy rain which continued after the storm, and caused damage to buildings to the extent of about \$500. A heavy wind and hail storm moved eastward over Grapevine, Tex., about 5 p. m., damaging crops. At Columbia, Mo., a thunder-storm began during the night and ended at 8 a. m., and a man was struck by lightning and killed about 8 miles from the city. At Nevada, Grundy Co., Mo., a severe storm was reported which caused damage to several buildings.

**9th.**—At Springfield, Mo., a thunder-storm began 1.25 p. m., and hail fell from 1.48 p. m. to 1.52 p. m. The hail-stones were of irregular shape and many of them measured 2 inches in diameter. The storm ended 3.20 p. m. Considerable damage was done by the hail. At Irishtown, Ill., a thunder-storm began 3.40 p. m., and hail fell for 25 minutes. Some of the hail-stones were the size of partridge eggs. At Jordon's Grove, Ill., a church was unroofed and several buildings damaged. At Milwaukee, Wis., a thunder-storm with high e. winds began 7.25 p. m. and ended 11.30 p. m. The rain was very heavy and the lightning brilliant. A building was struck by lightning and set on fire. A heavy rain and hail storm was reported at Hempstead, Tex. A destructive wind, rain, and thunder-storm was reported at Monticello, Ill., during which 2 buildings were struck by lightning.

**10th.**—At New Orleans, La., a thunder-storm moving northward began at 2.35 p. m. and lasted 55 minutes. A boy was struck by lightning and killed a few miles north of the city. At Memphis, Tenn., a violent thunder-storm began 11.30 p. m., 9th, and ended at 1 a. m., 10th, during which a building used for storing cotton was struck by lightning and burned, together with 8,000 bales of cotton.

**11th.**—A violent electric storm passed over York, Pa., in the evening, during which 0.25 inch of rain fell in 9 minutes. A violent thunder-storm with hail occurred in the evening in Carroll Co., Md.

**12th.**—At Palestine, Tex., a thunder-storm, with heavy rain, hail, and high winds occurred in the evening. A heavy wind and hail storm was reported at Gainesville, Tex., causing some damage in that vicinity. In Cooke and Grayson counties, Tex., wind, rain, and hail storms caused damage to buildings, etc. A severe local storm was reported at Beatrice, Nebr. At Leavenworth, Kans., high s. and se. winds with rain and distant thunder prevailed at intervals during the day; several trees were uprooted by the wind.

**14th.**—A heavy rain and hail storm occurred in the east part of McCulloch Co., Tex., in the afternoon. A violent electric storm was reported in Grayson Co., Tex.

**15th.**—At 7 p. m., local time, a storm passed ne. over Hansford, Tex., in a path about 400 yards in width. The storm was preceded by hail the size of pigeon eggs and heavy thunder and lightning. A funnel-shaped cloud was seen, but dust prevented accurate observation; 2 persons were killed and property was destroyed to the value of about \$25,000. Several persons stated that they observed balls of fire during the passage of the storm. The storm destroyed everything in its path. Prior to striking Hansford it had evidently been split, as on the flats 5 miles from town there were 2 distinct traces of its course. At Claude, Armstrong Co., Tex., 2 men were killed and several houses were destroyed. A severe storm also occurred at Palodura City, Tex. A heavy thunder-storm passed over Little Rock, Ark., about 4 a. m., burning out connections in the telephone exchange. A severe local storm was reported at Liberal, Kans., in the afternoon. A severe electric storm was reported at daylight at England, Ark.

**16th.**—At Dodge City, Kans., a violent thunder-storm began at 10.45 p. m., 15th, and between midnight and 1 a. m., 16th, the thunder and lightning were terrific, and heavy rain fell. About 1.10 a. m. the wind blew at the rate of 58 miles per hour and attained a force of 70 miles for 1 minute, causing considerable damage to out-houses, etc. Light hail fell at intervals from 12.15 to 12.55 a. m. Violent storms were reported in sw. Kansas and Texas. 3 miles n. of Carrollton, Mo., a storm from the nw. cut a path about 50 yards in width through the

timber. During a thunder and hail storm at Indianola, Iowa, 2 cows were killed by lightning. A severe electric storm occurred in Grundy Co., and a heavy wind storm in Saline Co., Mo. At Little Rock, Ark., a thunder-storm moving eastward, with rain and hail, occurred in the evening. Severe storms occurred in Georgia. Very heavy rainfall caused considerable damage in Glynn Co., and a man was killed by lightning near Savannah. A man was killed by lightning near Washington, N. C.

**17th.**—A heavy thunder-storm passed about 25 miles ese. of San Antonio, Tex., and crops were reported destroyed by heavy rain and floods. At Concordia, Kans., rain and distant thunder, with hail the size of walnuts, began at 6.58 p. m., flooding streets and basements. At Gallinas, Tex., the rainfall of the 17th–21st, inclusive (13.55), is remarkable as being in excess of that measured during any single month in 20 years. Most of the precipitation occurred during the storm of the 17th, 20th, and 21st. On the 17th 5.00 inches fell in less than 2 hours, and rain fell at about the same rate on the 21st. Incessant and violent thunder and lightning attended these storms, with dashes of hail the size of cherries. During a rain storm at Chattanooga, Tenn., what appeared to be pollen was deposited in the gutters and on houses. At Trenton, Mo., a boy was reported killed by lightning. At Olney, Ill., 2 barns were struck by lightning, one of which was burned. A destructive wind and hail storm was reported at Marion, Ind., in the afternoon. At Tarpon Springs, Fla., 2 buildings were struck by lightning and damaged.

**18th.**—During a heavy thunder-storm, with hail, a barn was struck by lightning and burned a few miles n. of Dyberry, Pa. Severe electric storms, with hail, occurred in central and south Pennsylvania. At Salladasburgh, Pa., a man was reported killed by lightning. Considerable damage was reported by lightning in Harford and Baltimore counties, Md. At Royalston, Mass., a severe thunder-storm, with heavy rain and incessant lightning, occurred. At Orange, Mass., 5 houses and 2 horses were struck, and one man was killed, by lightning. About 1 mile from Northville, Tenn., a storm began shortly after 1 p. m., and in a few minutes the rain fell in torrents and the thunder and lightning were terrific. A store and several trees in Crossville were struck by lightning. The sound of the electricity passing through the falling rain was like that produced by thrusting a red-hot bar of iron into water. A rivulet of fire which seemed to break out from a heavy black cloud ran down some 5°, when it divided, one-half rushing down and shivering a tall tree and the other half arching over the sky to the opposite side and producing a series of concussions like the discharge of heavy cannon. A severe storm was reported in Paladura Canyon, Tex.

**19th.**—A heavy thunder-storm moved ne. over Oklahoma City, Okla. T., and a cloud-burst was reported in the Cherokee Strip. Some stock was killed by lightning near Tullahoma, Tenn.

**20th.**—At Corpus Christi, Tex., a high se. wind had been blowing for several days. At 11.15 a. m. the wind veered to sw. and then to w. and nw. A bank of clouds in the nw. seemed to be thrown violently upward and in a few minutes the wind reached a velocity of 60 miles per hour, with heavy rain, 0.52 inch falling in 13 minutes. The wind continued in gusts until 5 p. m. The track of the storm was about 2 miles in width; several houses were blown down; 2 small boats were sunk; and a boy was killed by a falling shed. A severe storm was reported at Pittsburgh, Camp Co., Tex., demolishing a number of buildings and injuring several persons. A heavy rain and hail storm was reported at Del Rio, Tex. At Lawrenceburgh, Tenn., a storm of wind, rain, and hail damaged young vegetation.

**21st.**—A farmer and 2 horses were killed by lightning in Knox Co., Tenn. At Louisville, Ky., a thunder-storm from the sw., with high winds, prevailed in the afternoon; the temperature fell from 86° to 63° in 20 minutes. At Vevay, Ind., fences and trees were prostrated by a strong sw. gale.

**23d.**—Severe thunder and wind storms occurred in Connecticut. At Norwich a man was reported killed by lightning.

At Middletown, an iron building in course of erection was blown down.

**27th.**—A severe gale prevailed over the north part of the Lake region. At Duluth considerable damage was done to unfinished buildings. At Trout Lake, 44 miles west of Sault de Ste. Marie, Mich., wind uprooted trees and demolished houses.

**30th.**—A severe storm with thunder and lightning swept

over Tiffin, Ohio, about 5 p. m. The storm, which appeared to be a straight blow, moved eastward, damaging houses, trees, etc. The wind lasted about 5 minutes and was followed by a light fall of rain. Sells Brothers circus lost about \$5,000 by damage to properties, and several of the audience and employés were injured. A man was reported killed by lightning near Stockwell, Ind.

## INLAND NAVIGATION.

Heights of rivers above low-water mark, April, 1891 (in feet and tenths).

Stations.	Danger-point on gauge.	Highest water.		Lowest water.		Monthly range.
		Date.	Height.	Date.	Height.	
<i>Red River.</i>						
Shreveport, La.	29.9	30	18.0	18, 19	13.8	4.2
<i>Arkansas River.</i>						
Fort Smith, Ark.	22.0	21	17.5	10	5.2	12.3
Little Rock, Ark.	23.0	23	20.9	13	8.1	12.8
<i>Missouri River.</i>						
Sioux City, Iowa	18.7	10	10.6	8	6.0	4.6
Omaha, Nebr.	18.0	11	11.2	1	7.6	3.6
Kansas City, Mo.	21.0	15	14.5	11	9.6	4.9
<i>Mississippi River.</i>						
Saint Paul, Minn.	14.0	17	6.4	1	3.2	3.2
La Crosse, Wis.	13.0	27, 28	10.4	1	8.4	2.0
Dubuque, Iowa	16.0	30	13.9	1	8.1	5.8
Davenport, Iowa	15.0	29, 30	10.0	1	6.9	3.1
Keokuk, Iowa	14.0	22	10.6	2	9.7	0.9
Saint Louis, Mo.	30.0	25	23.5	9, 10	18.1	5.4
Cairo, Ill.	40.0	6	44.8	30	31.3	13.5
Memphis, Tenn.	33.0	11, 15	33.9	30	28.0	5.9
Vicksburg, Miss.	41.0	2, 3, 4	48.1	21, 26	47.3	0.8
New Orleans, La.	13.0	2	15.8	30	15.0	0.8
<i>Ohio River.</i>						
Pittsburgh, Pa.	22.0	4	15.0	30	3.0	12.0
Parkersburg, W. Va.	38.0	4	24.8	30	6.0	18.8
Cincinnati, Ohio	45.0	7	43.5	30	15.5	28.0
Louisville, Ky.	24.0	7	18.6	30	7.9	10.7
<i>Cumberland River.</i>						
Nashville, Tenn.	40.0	4	26.4	20, 30	11.4	15.0
<i>Tennessee River.</i>						
Chattanooga, Tenn.	33.0	2, 3	16.3	30	6.2	10.1
Knoxville, Tenn.	29.0	13	9.2	30	2.7	6.5
<i>Monongahela River.</i>						
Pittsburgh, Pa.	29.0	4	15.0	30	3.0	12.0
<i>Savannah River.</i>						
Augusta, Ga.	32.0	3	23.5	30	9.4	14.1
<i>Willamette River.</i>						
Portland, Oregon	15.0	27, 28	8.8	4	2.6	6.2

## ICE IN RIVERS AND HARBORS AND OPENING OF NAVIGATION.

**Mississippi River.**—At La Crosse, Wis., the river was clear of floating ice until 6.30 p. m. of the 1st, when it came down in great fields, doing considerable damage to the new sheer work of the new bridge. At Red Wing, Minn., the river was free of ice on the 5th. On the 10th ice on Lake Pepin was considerably broken up by high winds. Reports of the 16th indicated that the ice on Lake Pepin was sufficiently broken up to allow the passage of steamboats. On the 12th the first up-river boat of the season arrived at La Crosse, Wis.

**Missouri River.**—The ice gorge below Fort Buford, N. Dak., broke during early morning of the 1st. On the 4th navigation opened at Scranton, N. Dak. Ice was running out until the 4th, and on the 5th the river was clear of ice at that point. On the 3d the ice broke up at Bismarck, N. Dak., at 4 a. m. In the last 46 years the earliest date on which the ice was broken up at Bismarck was March 3d, 1871, and the latest date was April 21st, 1859. At Pierre, S. Dak., the earliest date upon which ice was broken up in the last 46 years was March 11th, 1873, and the latest date was April 20th, 1847. At Fort Yates, N. Dak., the ice was breaking up and moving out on the 4th. At Fort Sully, S. Dak., the river began filling up with broken ice on the 5th; 6th, river full of running ice; 26th, the first boat of the season going south; 29th, the first boat of the season going north. On the 10th the river was clear of ice at Yankton, S. Dak. On the 10th the river rose very rapidly at Sioux City, Iowa, with a large amount of drift and but little ice.

**Saint Clair River.**—On the 3d the Saint Clair River was closed by ice 12 miles south of Port Huron; 8th, large quantities of floating ice passing Port Huron; 9th, Saint Clair

River blocked with ice from Marysville to Saint Clair, a distance of 12 miles; 13th, ice from lake was filling up the river at Port Huron, and the steamer "Atlantic," which left Detroit on the 12th, was reported fast in the ice at Olgonac; 14th, river completely blocked by ice at Port Huron, and ferry-boats were unable to run; this condition never before existed at that place at this season of the year; 16th, the ice in the river was slowly breaking up at Port Huron.

Lake Champlain was opened for navigation at Plattsburgh Barracks, N. Y., on the 4th. At Burlington, Vt., navigation was resumed on the 9th. Navigation on Lake Ontario opened at Oswego, N. Y., on the 4th. At Buffalo, N. Y., ice was drifting down the Niagara River in large fields on the 2d; 5th, harbor clear of ice; 10th, lake entirely free of ice; 14th, navigation opened; 16th, the first boat of the season left. Navigation on Lake Erie opened at Erie, Pa., on the 11th; at Toledo, Ohio, on the 5th, and at Sandusky, Ohio, on the 7th. On the 9th Lake Huron was covered with ice as far as could be seen from Port Huron, Mich. On the 19th a steamer from Lake Michigan arrived at Duncan City, Mich.; this was the first boat of the season. At Sault de Ste. Marie, Mich., the first boat of the season, a tug, bound from Detroit for Ashland, arrived on the 27th. At Duluth, Minn., navigation opened on the 30th. Since 1880, the earliest date on which navigation opened at Duluth, was March 25th, 1889, and the latest date was May 9th, 1883. The first boat of the season from Milwaukee, Wis., arrived at Green Bay on the 13th. The first boat of the season left Port Huron, Mich., on the 19th, and Fort Gratiot Light was lighted for the first time this season. On the 20th a steam barge arrived at Port Huron from Oscoda, Mich.; this was the first arrival of the season. On the 23d vessels that had been ice bound at Saint Clair Flats forced their way through, opening navigation for the season. At Port Huron navigation opened 25 days later than last year. The first boat of the season from Bay City, Mich., arrived at Alpena on the 19th. Lake Winnebago was opened at Oshkosh, Wis., on the 21st.

## FLOODS.

The month opened with the Mississippi River above the danger-line from Cairo, Ill., southward; it continued above the danger-line at Cairo until the 19th; at Memphis, Tenn., until the 22d; and at Vicksburg, Miss., and New Orleans, La., throughout the month.

On the 1st the Mississippi River was rising rapidly at Arkansas City, Ark. On the 2d the stage of the water was 48.1 feet, 7.1 feet above the danger-line, at Vicksburg, Miss., and 15.8 feet, 2.8 feet above the danger-line, at New Orleans, La. On the 3d the Concord crevasse was 1,000 feet in width. The river remained stationary at 48.1 feet at Vicksburg, Miss. A break occurred about 2 miles below Longwood, Miss. On the 4th the river remained stationary at 48.1 feet at Vicksburg, Miss. On the 5th a portion of the newly constructed levee which was built to protect Gretna from the overflow from the Ames crevasse gave away, and in a few hours the entire rear portion of the town was flooded, and much damage and inconvenience resulted. On the 6th the stage of the water at Cairo, Ill., was 44.8 feet, 4.8 feet above the danger-line. On the 10th water from the Ames crevasse broke through the rear protection levee on the Concession Plantation, 20 miles below New Orleans, and it was feared that great damage would be done